6(1

Notice of Allowability	Application No.	Applicant(s)
	10/635,892	LEU ET AL.
	Examiner	Art Unit
	Andre' C. Stevenson	2812
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is sufficiently.	this application. If not included nication will be mailed in due course. THIS
1. This communication is responsive to <u>an RCE filed on 07/23/07.</u>		
2. The allowed claim(s) is/are <u>1-17.</u>		
 3. Acknowledgment is made of a claim for foreign priority unally all blue Some* claim for foreign priority unall half blue Some* claim for foreign priority unall half blue Some* claim for foreign priority unall half blue some some some some some some some som	e been received.	
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. M Notice of References Cited (RTO 802)	E Notice of Inf	armal Datast Application
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		ormal Patent Application mmary (PTO-413),
	Paper No./N	Mail Date
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. ∐ Examiner's A	Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's S	Statement of Reasons for Allowance
-	9. Other	Mala thinked
	SUP	MICHAEL LEBENTRITT ERVISORY PATENT EXAMINER

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Reasons for Allowance

The following is an examiner's statement of reasons for allowance: While the prior art

teaches, in a method for forming a metallization layer, it fails to teach, either alone or in

combination, forming an upper interconnect in the upper recess layer and forming a conductive

upper diffusion barrier layer above and on the upper interconnect.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Claims #1 through 17 are allowed.

Claim #1

> Forming an upper interconnect in the upper recess; and forming a conductive upper

diffusion barrier layer above and on the upper interconnect.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866 – 217 – 9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andre C. Stevenson whose telephone number is (571) 272 1683. The examiner can normally be reached on Monday through Friday from 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt, can be reached on (571) 272 1873. The fax phone number for the organization where this application or proceeding is assigned is (703) 308 7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308 1782. Also, the proceeding number can be used to fax information;

• (703) 872-9306

Andre C. Stevenson Art Unit 2812 08/15/07

MICHAEL LEBENTRITT SUPERVISORY PATENT EXAMINER